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basic imagery interpretation report

Donguz Weapons Test Center (S)

GENERAL PURPOSE WEAPONS INDUSTRIAL FACILITIES BE: Various USSR



Secret

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INSTALLATION OR ACTI	VITY NAME	-				COUNTRY	
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Installation		Geographic Coordinates	Category	BEN	lo CC	MIREX No	NIETB No
Donguz Weapons Center	Test	51-26-00N 054-50-00E					
Donguz Weapons Proving Ground	& Electronics NE	51-32-03N 054-56-40E					
Donguz FA/MRL T Firing Site	est	51-30-00N 054-53-41E					
Donguz Surface-to Weapons Firing S		51-28-40N 054-51-50E					
Donguz Controlled Fragmentation Te		51-28-00N 054-56-00E					
Donguz Surface-to Weapons Target	-Air	51-27-28N 054-50-00E					
Donguz Weapons ⁻ Support Area	Test	51-26-00N 054-50-30E					
Donguz Armor Penetration Rang	ge	51-25-10N 054-46-40E					
Donguz Unidentifi Construction Act		51-24 40N 054-48-55E					
Donguz Abandone Monitoring Site	d Test	51-23-00N 054-46-20E					
Donguz SAM Test Site	Firing	51-19-35N 054-46-00E					
Donguz AAA/SAM Test Area	Mobile	51-19-30N 054-42-25E					
Major Related Insta	allations:						
Donguz Military Ba	rracks	51-32-29N 055-00-10E					
Donguz Airfield		51-30-06N 054-59-02E					
Donguz Radrel Stat	tion	51-32-45N					

This table in its entirety is classified SECRET/WNINTEL.

Donguz AAA Training

ABSTRACT

51-33-20N 054-51-10E

1. Donguz Weapons Test Center is the major Soviet facility for test and evaluation of antiaircraft artillery and low-altitude surface-to-air missiles assigned to ground forces. The facility is also involved in the systems integration and compatibility testing for electronic countermeasure and electronic support measure systems, and air warning radars assigned to ground force units. To a lesser degree, electronics support systems for tanks, field and self-propelled artillery, and other weapons and armored fighting vehicles are tested and evaluated there. (S/WN)

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	and anything for the state of t		051/4
	and contains 59 photographs, two tables, and a map. (U)		25 X 1

INTRODUCTION

3. Donguz Weapons Test Center (DWTC) is in the southwestern USSR, 13 nautical miles (nm) south of Orenburg and 1 nm southwest of Donguzskaya. The facility is situated on hilly terrain and is served by rail, air, all-weather roads, and dirt trails. (S/WN)

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- 4. According to collateral, DWTC was established in 1947 to test artillery and other weapons assigned to regimental units.¹ A training unit for antiaircraft artillery (AAA) was also established at Donguz in 1947. This training unit was formed from three separate units—a battalion of an AAA regiment previously in Leningrad, an air force squadron, and an infantry company. Correlation of collateral and imagery has confirmed the AAA training unit. Part of the center, known as "Stansiya Donguz Range," is supposedly used for large-scale maneuvers.2 First imagery of the DWTC revealed that the center had already been well established by 1960. (S/WN/NOFORN)
- 5. DWTC conducts developmental tests, field tests, and state trials. Developmental testing is conducted at Donguz Weapons and Electronics Proving Ground (WEPG) Northeast. During developmental testing, autonomous, comparative, and compatible tests of a system and its components are conducted to determine if the system meets technical specifications and is suitable for field testing. Field testing is conducted at various Donguz facilities south of the WEPG or at designated troop test facilities in the USSR or other Warsaw Pact countries. During the field test phase, such characteristics as operational ease and durability are evaluated. State trials are usually performed at Donguz WEPG Northeast. During this phase, the system prototype is evaluated and is given final certification by a state commission prior to authorization for series production and field deployment. This phase often ends with a static display of the newly certified system in area A of Donguz WEPG Northeast. (S/WN)
 - 6. Significant systems that have been tested at Donguz since 1960 include the following:

ODD PAIR ODD GROUP SA-9 SPOON REST D **SA-13** T-64 FLAT FACE B DOG TAIL T-72 **BMP M-1981 BIG CAP BIG CAP B** 240mm SP mortar M-1977 203mm SP gun M-1975 KING PIN Modified KING PIN 152mm SP gun M-1981 BM-27, 220mm MRL BAR BRICK BM-21, 122mm MRL Modified BAR BRICK **SWING BOX** 122mm MRL ZIL-131 **Modified SQUAT EYE** (regimental RL) ZU-X (unidentified towed AAA) **STOVEPIPE** Modified STOVE PIPE ZSU-I (unidentified SPAA ON SKY BOARD ZSU-23/4 chassis) ZSU-X (unidentified SPAA) SCOUT CAMP VIEW POINT ZSU-23/4 LONG TRACK PAINT BOX BREAD BIN (S/WN) **SQUAT EYE**

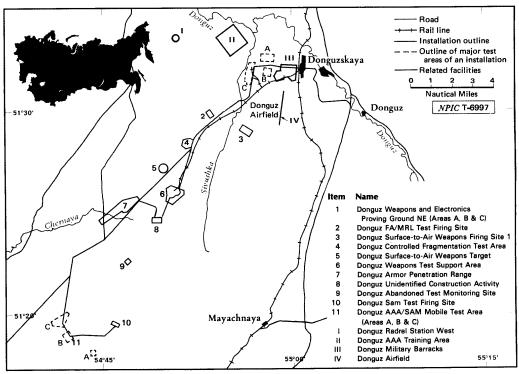


FIGURE 1. LOCATIONS OF FACILITIES AT DONGUZ WEAPONS TEST CENTER, USSR

25X1 BASIC DESCRIPTION 7. DWTC is an oval-shaped area with its long axis running in a northeast/southwest direction. The area extends 21 nm southwest from a point 1 nm west of Donguzskaya. The primary test facilities are on the northeast end with secondary facilities in the central and southwestern areas (Figure 1). (S/WN) Donguz Weapons & Electronics Proving Ground Northeast 8. Donguz Weapons & Electronics Proving Ground (WEPG) Northeast (Figure 2), formerly Donguz Artillery Test Area, is approximately 2.0 mn north-northwest of Donguz Airfield and 15 nm south-southwest of Orenburg. This facility houses the headquarters for the DWTC. Technical evaluation of weapons systems, research and development (R&D) of new system components, and operational control and coordination of activities at DWTC are performed in this area. IS/WN) 9. The WEPG conspixs of six R&D-related 9. The WPPG consists of six R&D-related areas—a vehicle storage park; test areas A, B, and C; a drone launch support area; and an R&D headquarters. (S/WN) 25X1 SECRET



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Test Area A

11. Test area A (Figure 4) is the primary area for evaluation of electronic countermeasure/electronic support measure (ECM/ESM) systems and fire control radars. The area also serves as a test administration area, display area, and storage/technical support area for test support equipment. (S/WN)

(S/MN)

12. ECM/ESM systems have been tested throughout the area; however, the secured section in the northwest corner of test area A has primarily been associated with testing and evaluating of mobile intercept systems such as the SKY BOARD, BAR BRICK, and SWING BOX. The storage/support building for ECM/ESM research is adjacent to this intercept test area. From 1975 to 1980, ECM/ESM radars were stored and tested in test area B while new ECM/ESM test support facilities were being constructed in test area A. Once this construction was completed in 1981, the equipment was moved to test area A. G. (SWN) equipment was moved to test area A. (S/WN)

13. A hardstand in the west corner of the area has been associated with technical work related to fire control radars such as the GUN DISH and FLAP WHEEL. The maintenance building near the hardstand supports this activity. (S/WN)

the hardstand supports this activity. (S/WN)

14. New systems and display equipment are
often observed adjacent to administration buildings in test Area A prior to being moved to
another area/facility for display or testing. Equipment displays in this area frequently show how
new pieces of equipment will be deployed in the
field as a unit. Thus, it is possible to determine the
deployment pattern before these systems are fully
field deployed. (S/WN)

field deployed. (S/WN)

15. Buildings and hardstands in the eastern half of the area are apparently used for the storage and maintenance of test support equipment. The hardstand and buildings at the east end of the area are probably used for calibration of SHIP WHEEL, FIRE WHEEL, and other older fire control radars used in tests. The building-mounted SHIP WHEEL radars are probably used for comparisons with recently calibrated mobile SHIP WHEEL radars are probably used for comparisons with recently calibrated mobile SHIP WHEEL radars. The larger building on the hardstand is probably a technical support building. The area south of the hardstand has been used to store optical tracking equipment. Often, the two-axle carriages used to transport theodolites and optical trackers can be found there. (S/WN)

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Test Area B

Test Area B

16. Test area B (Figure 5) is the primary test area for air warning (AW) radars. New AW radars have usually been tested on the south side of the facility or on the hardstand that runs diagonally through the center of the area. The activity in this area is related to the technical evaluation of new systems, comparisons of new systems with the systems they replace, or assessing compatibility with other systems with which they may be deployed. Occasionally, newly deployed systems have been displayed there. From 1975 to 1980, ECM/ESM equipment, which was originally tested in test area A, was tested on the north side of test area S. This was a temporary arrangement during the new construction in test area A. (S/WN)

Test Area C

Test Area C

17. Test area C (Figure 6 and Table 1) is the primary test area for artillery, surface-to-air missiles (SAMs), and armored fighting vehicles (AFVs). Test firings of these systems take place from positions along the west edge of the area. The artillery firing line is used primarily for test firing of towed artillery, but on occasion tanks and self-propelled (SP) artillery systems have been observed there. Seven test stands are in area C. Test stand A is used as an evaluation station for both towed and SP AAA systems. Test stands B and C are primarily used for testing of SAM systems. Test stand D is probably used to test towed AAA systems. Test stand E is the primary stand for firing of multiple-rocket-launchers (MRLs), and test stands F and G are used for SP artillery. However, it is not uncommon to find systems on a test stand that are not usually associated with it. It is also a common practice for temporary test positions and shelters to be erected. Technical support facilities are on the east side of the area, and the storage area is on the north end of the area. (S/WN)

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Table 1. Test Area C at Donguz Weapons and Electronics Proving Ground Northeast (Keyed to Figure 6)

tem	Function	Dimensions (m) L W H	Remarks
1	Revetted stor bidg Revetted stor bidg		
3	Revetted stor bidg		
4	Stor/spt bldg		
5	Bnk stor bldg		-
6	Stor bidg		
7	Stor bldg		
8	Stor/spt bldg		
9	Stor/spt bidg		
0	Stor/spt bldg		-
1	Stor/spt bldg		3-sty bldg has been associated
2	SP arty maint/engr bldg Admin sect		with testing of SP guns & MRLs
a b	Engr/sect		
C	Maint bay		
3	Admin bldg		
a	Admin blog		
b	J		
c			
4	Stor/spt bldg		
5	Stor/spt bidg		
6	Spt bidg		
7	Spt bldg		
8	Security bldg		
9	Security bldg		
0	Test spt bldg		
1	Spt bldg Test spt bldg		
3	Spt bldg		
4	Spt bldg		
5	Spt bldg		
6	Test spt bldg		
17	Spt bidg		
8	Test ops bldg		
9	Admin/spt bldg		
30	Admin/spt bldg		
31	Stor/spt bldg		
32	Stor/spt bldg		2 SHIP WHEEL radars mounted on roof of bldg; mol
33	Tracking bldg 2		SHIP WHEEL & TWIN CIGAR are often associated with this bldg
34	Secure stor bldg		
35	Stor/spt bidg		
36	Ops bldg		
37	Test spt bnk		
38	Spt bldg		Connected by walkway to Bidg 39
39 40	Observation point Test monitoring/ops bldg		4 cinetheodolites are mounted on bldg: 2
			2-van monitoring stations, each having an ops van & an imaging van with 2 cinetheodites mount on them, are cable connected to the bldg: two platforms, each mounting a TWIN CIGAR antenna are on the west side of the bldg
41	Heating plant		Conduit connects this bldg with pad B
42	Test ops/control bidg		A tracking telescope is mounted on roof of bunkers
а	Test monitoring bnk		1 mobile TWIN CIGAR is adjacent to van
43	SAM/AAA maint & engr		Bldg has an engr sect & maint bay with an overhead crane used to service AAA & mobile SAMs; Bldg
	bidg		adjacent to this one has two unid objects on roof.
			poss cameras
44	Stor/spt bldg		Addition to bldg
45.46	Bnk instrumentation (2)		Prob obtains ballistic data for research engrs
47.48			Prob obtains ballistic data for research engrs
49,50	Bnk instrumentation (2)		Prob obtains ballistic data for research engrs
51	Artillery firing line		Line is serviced by a traveling gantry crane
52	Spt bidg		
53	Spt bldg		
54	Stor bidg		
55	Spt (PUG) bldg		Bidg is linked by conduit to the instrumentation
56	Artillery firing line		on the arty firing line
	ops bldg		on the drift ming
57	Stor/spt bldg		
58 A	Stor/spt bldg AAA test pad		One 13 x 8 spt bldg & one 9 x 8 spt bldg are
А	WWW rest han		associated with this pad; SP & towed AAA obseron this pad
В	SAM test pad		This pad is linked by conduit to target T-7 (Figure
С	SAM/AFV test pad		This pad is linked by conduct to longer 1 7 things
D	Unid test pad		
E	MRL test pad MRL/arty test pad		
G	MRL/arty test pad		

NA = Not Available.
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Declassified in Part - Sanitized Copy Approved for Release 2012/01/03 : CIA-RDP84T00171R000201030001-6 SECRET Donguz FA/MRL Test Firing Site Donguz FA/MRL Test Firing Site

20. The Donguz Field Artillery (FA/MRL Test Firing Site (Figure 9) is approximately 13.5 mm west of Donguz Afriled. This facility is primarily used to test fire Field artillery pieces, 5.9 artillery, and MRIs. The lack of test monitoring equipment in the area usgests that the test firings are used to determine the tube life and optimum sustained sate of fire for the system being steed. The facility may also be used for firing demonstrations. The test of the firm of the firing sate of the form of the system being the short of the firing sate of the form of the firing sate of the form of the firing sate of the fire of the firing sate of the fire of the firing sate of the fire sate of the firing sate of the sate of the firing sate of the sate of the

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21. Since its completion, a number of significant artillery pieces have been observed there. The observation included the following: BM-21/122mm regimental MRL BM-27 BM-27 BM-976 And the 152mm Fleid gun M-1981 And the 152mm field gun M-1976 There has also been ongoing activity involving older pieces such as the 203mm howitzer B-4, 152mm D-20, and 122mm FA. (S/WN)		25X1 25X1 25X1 25X1 25X1
Donguz Surface-To-Air Weapons Firing Site 1		
22. The Donguz Surface-to-Air Weapons Firing Site 1 (Figure 10) is 4.6 nm west-southwest of Donguz Airfield. This facility serves as a SAM and AAA test firing point. The Donguz Surface-to-Air Weapons Target, 1.7 nm southwest of the site, is the primary down-range target. The firing site consists of two monitoring buildings and one control bunker in a line. These structures are similar to structures found at the north end of the Donguz Armor Penetration Range. The firing site contains four support buildings, one revetted test firing hardstand, five equipment hardstands, and an operations/support bunker. (S/WN)		
23. Telemetry equipment and optical devices in the area indicate that this facility conducts test firings of SAM systems. Despite numerous obser- vations of possible SAMs, positive identification of a specific SAM system has not been made. (S/WN)		
24. One FA piece and a blast mark from an unidentified weapons system were identified in the area on The blast mark was possibly caused by the test firing of a shoulder-fired SAM. (5/WN)		25X1
25. On a 37mm AA gun \$-60, six FLAP WHEELS, one FIRE CAN, and a generator trailer were involved in the exercise. The \$50 were set up in two formations—one consisting of six guns in a circle and the other consisting of four in a square. (S/WN)		25X1
Donguz Controlled Fragmentation		
Test Area		
26. The Donguz Controlled Fragmentation Test Area (Figure 11), previously called Pervomaysky Radrel Station Southwest, is 2.8 nm southwest of Donguz Airfield. Until 1969, the facility consisted of a tower and buildings at the base of the tower. In 1970, the area was enclosed by a double security fence, and test station B (Figure 11) was constructed. Four other test stations have been constructed since then, and new construction was evident at the end of the reporting period. (S/WN)		
27. Since 1972, this area has primarily been used for fragmentation tests against derelict Soviet fighters, bombers, and helicopters. The area has also been used as a deployment site for new ECM/ESM systems being tested at Donguz. The following ECM/ESM deployments have been observed there: one PAINT BOX system on and again on one SCOUT		25X1 252X1

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CAMP set on and two PAINT	22.0 nr by coll
BOX systems on (5/WN)	tion D
Donguz Surface-To-Air Weapons Target	trainin volved
28. The Donguz Surface-to-Air Weapons Target (Figure 12) is 4.7 nm southwest of Donguz Airfield. The facility consists of two large towers with long sloping ramps which serve as a target for antiaircraft (AA) weapons systems fired from Donguz Surface-to-Air Weapons Firing Site 1 or the surface-to-air weapons firing site on the north edge of Donguz Armor Penetration Range. Derelict fighter aircraft are suspended on cables to serve as targets (Figure 12) or are drawn up one of the ramps. (S/WN)	researd Norther for testin R&I or by proba rail li (S/WN 33; the s
29. As of September 1982, no actual confirmations of SAM firing at this target have been reported. However, evidence of test preparations and posttest damage have been observed. (S/WN)	/admi arms ner c
30. The surface-to-air weapons target was present on the first imagery of the Donguz area in 1960. According to collateral information, SA-7 missiles were test fired at Donguz. The SA-7 missile was developed in the late 50s and early 60s and first produced in 1962. ³ The presence of surface-to-air weapons test facilities at Donguz during that period would have made it a logical R&D facility for the SA-7 program. (S/WN/NOFORN)	area of guz A 3. admir a poot to th fire s rema
31. A probable MiG-15 aircraft was seen on the ramp of the east tower on The presence of this aircraft indicates a probable SAM or AAA test. The SA-9 was also under development during that timeframe. (S/WN)	has I Amo possi ODE PAIN
32. Little activity at the facility was observed from khrough One damaged aircraft remained in the area throughout the period. (S/NN)	SP m
33. On a FAGOT/FRESCO was suspended between the towers, indicating an apparent test was about to take place. This activity was probably SA-13-related, because it was observed during the timeframe that the SA-13 system was in state trials. (S/WN)	norti ficati guns (S/W
34. On a damaged FA-GOT/FRESCO was identified on the ground between the towers. The aircraft was oriented north, and its wings and most of the fuselage were intact; however, the tail section was totally destroyed. Aircraft debris was also observed to the south of the aircraft. The damage to the aircraft is characteristic of heat-seeking missiles which home in on	the s area mess facil grou dete sold the
the engine exhaust and impact into the engine, often leaving all but the tail end of the aircraft intact. (S/WN)	serv nan (S/V
35. From through 1982, at least five FAGOTs/FRESCOs were identified in the area. While no damaged aircraft were identified, new debris indicated that tests were performed after each aircraft observation. (S/WN)	

Donguz Weapons Test Support Area

36. Donguz Weapons Test Support Area (Fig-ure 13) is 6.5 nm southwest of Donguz Airfield and

- m south-southwest of Orenburg. Referred to llateral sources as the Stantsiya Donguz (Sta-Donguz) range,² this area is used as a troopa and field testing area. The soldiers ind in these activities are billeted in this remote probably to prevent their seeing sensitive rch activity underway at the Donguz WEPG least. The area is also used as a support area are striking performed by personnel engaged least. The area is also used as a support asstanctivity personnel engaged D at Donguz. Personnel arrive either by road rail. When security is a consideration, rail is ably used to transport personnel because the line skirts all of the sensitive test areas. N/NOFORN)
- . The numbers and types of buildings in 17. The numbers and types of buildings in support facility remained essentially unged from 1965 through 1975. A new barracks inhistration area and an underground small-range were constructed in the southeast corfo the facility between 1976 and 1979. The truction of the new barracks/administration coincided with the construction of the Don-Armor Penetration Range. (S/WN)
- 38. As of the roof of the inistration building (item 25, Figure 13) was in or state of repair. Also, the building adjacent ne railway unloading point was damaged by shortly after its construction in 1976 and has lined unrepaired. (S/WN)
- 39. Field testing and troop-training activity
 been observed at this facility since 1968.
 ong the more significant observations were the
 ible field testing of the LONG TRACK and
 D PAIR on field testing of the
 NT BOX and SPOON REST D on and troop training with the 240mm
 mortar M-1975 on S/WN)

- 40. On six probable 85mm AA s were identified on a sod hardstand near the h entrance to the area. Since this initial idention, the number has varied, indicating that the s are probably used periodically for training. VN)
- 41. On two vehicles were at south end of the new barracks/administration ta, and heavy smoke was coming from the new sishall. This was the first indication that the illities were occupied. However, no significant bund order of battle was identified. It cannot be termined if the occupants were ground force diers, R&D personnel, or engineers completing construction of the new facilities. Since no significant activity has been obved, although track activity and area maintence indicate that the area is still being used. WN) two vehicles were at

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Donguz Armor Penetration Range

- 42. Donguz Armor Penetration Range (Fig-ure 14; formerly Donguz Instrumentation/Artillery Test Area) is 8.8 mm southwest of Donguz Aitfield and consists of an armor penetration range, direct-fire test stations 1 and 2, unidentified test station 3, and a support area. The north end of the facility contains a surface-to-air weapons test firing site used to fire at Donguz Surface-to-Air Weapons Target. (S/WN)
- 43. The armor penetration range will proba-bly become the primary test facility for new muni-tions. The test areas are geared toward evaluating the performance characteristics of rounds, not ar-tillery pieces. However, the direct-fire test stations may be used to evaluate the effect of gun tube design on the stability of rounds. (S/WN)
- design on the stability of rounds. (S/WN).

 44. The Donguz Armor Penetration Range has been under construction since 1976. Prior to 1976, the only facility in the area was the surface-to-air weapons test firing site. Test station 2 was completed in 1976, station 1 was completed in 1978, and the armor penetration range was still not complete with condult and monitoring devices being installed as of September 1992. Because of continued construction, no significant test activity has been observed on the range firing line. (S/WN)

 45. New systems have not been identified at
- (S/NN)

 45. New systems have not been identified at the Armor Penetration Range. However, significant testing of currently deployed systems has been observed at the facility. This activity includes the firing of a possible T-12 antitank gun at test station 2 from 1976 to 1979; the presence of two probable 203 mm howitzer B-4s, one probable 152mm howitzer D-20, and an unidentified in 152mm howitzer D-20, and an unidentified station 1 on 1 and 154 tank at 154

Donguz Unidentified Construction Activity

Activity

46. Donguz Unidentified Construction Activity (Figure 15) is 8.5 nm southwest of Donguz Airfield. Contruction at this facility was first identified on the facility was still under construction on SAWN)

47. The operations area for this facility is enclosed by a berm, 336 meters long on the east and west walls, 136 meters long on the east and west walls, 136 meters long on the operation will be laid. Each square consists of two square ground scars in the enclosed area have trenches in which conduits/cables for the operation will be laid. Each square consists of two concentral trenches. The inner trench is 85 by 92 meters, and the outer trenches on sists of two concentral trenches. The inner trench large the directions with those on soutcer trench large the trenches on the inner trench. These holes are probably points at which either electrical devices, junction boxes, or dispensing devices will be located. Six pairs of holes are spaced part along

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the outer sides of the squares. The three inner sides each have five pairs of holes spaced meters apart. (S/WN)

- 48. The support area is outside the revetted area. The large bunker in the support area is probably the operations bunker as all of the primary structures share a common trench with this bunker. The T-shaped support building provides access to the revetted area. This structure is identical to the structure embedded in the berm behind the artillery firing line at Donguz WEPG Northeast. So, it is suspected that the area inside the berm will also be used for explosives research. (S/WN)
- 49. Two additional structures appear to be important to the operation of this facility, the small square building embedded in the north wall of the berm and the unidentified structure in the southwest corner of the area. The building in the wall of the berm has a trench which intersects with the trench leading from the center of the operations bunker to the operations area. The trench, leading from the unidentified structure, intersects with a conduit that enters the west wall of the operations bunker. A second conduit from the same area of the bunker's west wall intersects with a trench which leads into the operations bunker feeds into a trench network that includes the inner trenches of the two square areas. The trench at the west end of the operations bunker feeds into a network which includes the outer trenches. (5/WN)
- 50. Based on the above analysis, the central portion of the operations bunker and the square building embedded in the berm are related to the functions of the inner trenches in the operations area. The square building probably operates independently of the operations bunker. The unidentified structure in the southwest corner of the area appears to be a storage facility which feeds into the west end of the operations bunker. The operations bunker then controls the functions of the outer trenches in the operations area, possibly using substances stored in the unidentified structure. (S/WN)
- 51. A possible function of this facility is fuelative replosives testing. Fuel-air explosions are accomplished by a two-stage process. In the first stage, a substance is spread over a relatively large area by an explosive charge. The substance mixes with the air and obtains an explosive oxygen ratio. A second charge detonates the mixture, and the result is a uniform and destructive ground-overpressure. Probable fuel-air explosives research has been observed at Krasnoarmeysk Fragmentation/Munitions Test Area [(S/WN)]
- 52. Two apparent problems arise when conducting fuel-air explosives research: protecting the test facility structures from the effect of the resulting blast and keeping the mist contained to a specified area. The large berm surrounding the operations area would probably solve these problems. Additional protection is provided by using bunkers as opposed to above-ground structures. One area that could be of concern is the unprotected entrance to the operations area. Any structures near the entrance would be affected by the blast; however, no structures are presently in this danger zone (Figure 15). (S/WN)

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Declassified in Part - Sanitized Copy Approved for Release 2012/01/03 : CIA-RDP84T00171R000201030001-6 SECRET 25X1 Donguz Abandoned Test Monitoring Site Donguz Abandoned Test Monitoring Site 53. Donguz Abandoned Test Monitoring Site (Figure 16), 10.5 mm southwest of Donguz Airfield, once was a primary monitoring station for SAM research at Donguz. It was directly linked to the Donguz AAA/SAM Mobile Test Area. The first high-resolution imagery of the area was obtained on and the facility was full25X1 operational. Tracking equipment in the area included three probable tracking telescopes, two platform-mounted cinetheodolites, and unidentified antennas mounted on the roof of the operations building. Also, four positions for probable fixed metric cameras are on the roof of the operations building. This installation was abandoned in 1973. However, the operations building remains intact and could conceivably support future operations. (S/WN)

Donguz SAM Test Firing Site

54. The Donguz SAM Test Firing Site (Figure 17) is 14.4 nm southwest of Donguz Airfield. Five associated target mounds are at varying azimuths and distances from this facility. Helicopters are placed on these mounds to serve as targets for SAM testing (Figure 18). Similar targets can be found at Emba MTC Unidentified Construction Activity Donguz SAM Test Firing Site is probably used for the test firing of mobile SAM and SP AAA systems. Two two-axle van trailers, mounting TWIN CIGAR telemetry antennas, and one SHIP WHEEL set were on the radar mound in the area on The presence of the telemetry antennas indicates probable missile testing. Also, heavy track activity observed on indicated that a tracked vehicle had been in the area and had been backed onto the firing hardstand adjacent to a possible generator trailer. The only tracked SAM observed at Donguz has been the SA-13. An increase in the number of destroyed drones northeast of the facility since 1981 seems to confirm SAM testing. However, some of these drones may have been shot down by systems that were being tested at the nearby Donguz AA/SAM Mobile Test Area, 2.5 nm to the west. (S/WN)

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Declassified in Part - Sanitized Copy Approved for Release 2012/01/03 : CIA-RDP84T00171R000201030001-6 SECRET 56. From 1960 to 1978, area A (Figure 20) was one of the main test monitoring facilities for the AAA/SAM mobile test area, as well as the vehicle storage area for test vehicles. On the first high-resolution imagery of the state of the stat (S/WN)

77. Area 8 (Figure 21) is primarily a SAM test monitoring facility similar to area A. On the first high-resolution imagery of htq25X1 facility was equipped with one cinetheodolite/tracking telescope on a plinth, six fixed metric cameras, two FIRE WHEELs, a PUAZO 6, a SPOON REST A set, and three probable UHF/VHF communications vehicles. Missiles being tested in the area can be tracked continuously and monitored with this equipment. In addition, the fixed metric cameras can record the missile flight on film without tracking the vehicle. The PUAZO-6 fire control director and FIRE WHEEL radars provide pointing data for the cinetheodolite/tracking telescopes. Other systems observed in the area have been used to support various tests or training exercises. (S/WN) 25X1 RCA-11/0003/83 Z-12059/83 SECRET

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- 58. Area C (Figure 22) is the firing facility for SAM systems. From 1966 through 1971, the area consisted primarily of revetments and unidentified monitoring devices. However, in 1972, a drone launch facility and concrete test stands were constructed in the area. From this area, mobile SAMs can be fired from revetments or from a hardstand. Drones are launched from the five-position drone LP in area C or possibly from LPs 1 and 2, east of area C (Figure 19). On occasion, telemetry equipment and tracking radars have been identified in the area. (S/WN)
- 59. Figure 19 shows the location and cable connections between the two missile/drone LPs and eight MSs. The function, description, and construction date are summarized on Figure 19. (S/WN)
- 60. Unidentified structures are throughout the mobile test area. Many of the structures are possibly part of the test monitoring equipment; others are obviously part of the underground cable system. The majority of these items have no identifiable test function. (S/WN)
- identifiable test function. ISYMN)

 61. The facilities at the AAA/SAM Mobile
 Test Area changed only slightly between 1966 and
 1970. Most of the construction centered around
 the completion of fixed metric camera station 3
 which was under construction in 1967. Construction of MS 5 was first observed in September 1969
 and was complete by October 1970. (S/MN)
- tion of M5.5 was first observed in September 1990 and was complete by October 1970. (5/W).

 62. From 1972 to 1974, considerable construction was observed throughout the AAA/SAM Mobile Test Area. This construction was probably in preparation for the SA-13 testing observed there in 1973 and 1974. Major construction in the area included a main drone LP and test firing hard strands in area C, LPS 1 and 2, camera stations 6 and 8, two underground storage bunkers in area 8, and new roads servicing the major test and test support facilities. LPS 1 and 2 have rails that are similar in appearance to those used for drone launches. However, on the control of the sunders of the sunder
- man systems. (S/WN)
 63. The following construction occurred from 1975 to 1982: MS 2 was completed in 1975. Also in 1975, troop and vehicle revertments were dug along the north side of area B. These revetments resemble the type of positions the Soviet use to train soldiers on the firing of portable one-man SAM systems such as the SAA-7. In 1979, a storage building was constructed in area B (item 9, Figure 21). This building is probably used to store

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logistics an	nd test	support	equipment.	No	other
significant	constru	ction w	as observed	thro	ugh
	(5	5/WN)			9

64. The test area is primarily associated with fow-level SAM testing as evidenced by the presence of SA-9 and SA-13 on and by the test firing of SA-13 on the same of SA-13 on th

MAJOR RELATED INSTALLATIONS

Donguz Military Barracks

- 65. Donguz Military Barracks (Figure 23) is 0.5 nm west of Donguzskaya and 2.5 nm north of Donguz Airfield. This installation is probably an AAA school. Based on a correlation of imagery and collateral, an AAA training battallon, a rifle battallon, and an attached air force squadron are associated with the school. According to collateral, an AAA battallon from the Leningrad region was moved to Donguz in 1947. One rifle battallon and an air force squadron were attached to the AAA battalion.¹ Activity observed at Donguz Airfield tows targets and launches drones for AAA units undergoing training at Donguz. AAA training is performed at Donguz AAA Training as performed at Donguz AAAA Training 16. The AAAA school probably training Area.
- IS/WN/NOFORN

 6. The AAA school probably trains reserve officers and conscripts. According to collateral, two AAA officer schools in Orenburg use Donguz as a training base. Officer training is indicated by the small bivouces seen at Donguz AAA Training Area and corresponding troop activity in barracks/ administration area 2 which contains multi-story brick barracks and extensive excreational facilities. Conscript training is indicated by the regiment-sized bivouces at the AA training area and the corresponding troop activity in barracks/administration area 1, which contains only single-story, wood barracks and not the extensive recreational facilities in area 2. (S/WN/NOFORN)

 67. The barracks area also contains a security.
- 67. The barracks area also contains a security unit and possibly an engineering unit. These units are probably unsubordinated and render support to both the probable AAA school and the DWTC. (S/WN)

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Donguz Airfield

68. Donguz Airfield

68. Donguz Airfield (Figure 24) is 2.5 nm south of Donguzskaya. The squadron at the airfield operates in support of the DWTC and is subordinate to the probable AAA school at Donguz Military Barracks. The type of support includes towing of air targets, preparation and launch of LA-17 drones, and flight activity over designated areas. Aircraft organic to the squadron include approximately 12 IL-28 bombers, five MiG-15 fighters, and three M-8 utility helicopters. The organization of this squadron apparently changes with the needs of the DWTC and the probable AAA school. (5/WN)

Donguz Radrel Station West

69. Donguz Radio Relay Station West (Figure 25) is 6.2 nm west of Donguzskaya. This facility consists of an R-400 microwave antenna and a partially underground control building. This facil-ity was established prior to 1969 and provides communications with Orenburg, IS/WN)

Donguz AAA Training Area

70. Donguz AAA Training Area (Figure 26) is 3.5 nm west of Donguzskaya and 4.0 nm northwest of Donguz Airfield. This facility is under the opera-tional control of the AAA school at Donguz Mili-tary Barracks and is the training area for AAA field

exercises. The area may also serve as an air defense demonstration area. (S/WN)

Equipment Tested At Donguz

Equipment Tested At Donguz MRIs

71. The BM-27 was first identified in the vehicle storage park at Donguz WEPO Northeast on imagery of imagery

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> 73. The SA-13 missile system underwent development testing, field testing, and state trials at DWIC from 1971 to 1976. Probable developmental and state trials at DWIC from 1971 to 1976. Probable developmental area C. Drougu WEPC portions and the system state of the

passenger buses, two cargo trucks, and numerous personnel were observed in area 8, while three utility trucks and a smaller number of personnel were in area C. The passenger buses were probably used to transport technical personnel to the area Six 85mm AA guns were also in area 8, 25X1 however, the guns were not involved in any observable training or test activity.

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Tank Testing	APCs and AFVs	2
76. Tests involving the T-64 and T-72 tanks were observed at DWTC in 1979 and 1981. One T-64 and one T-72, both with an unidentified box mounted on the right side of their turrets, were observed at Donguz WEPG Northeast in 1979 (Figure 31). The tanks were first observed in the vehicle storage park on the tanks were on a test pad in area C. By 2 August, the tanks had been returned to the vehicle storage park and departed Donguz shortly thereafter. The tests were probably related to the development of a new gun tube, new munitions, or a new fire-control enhancement device (such as a rangefinder). The boxes were either test models of a new device or monitoring devices. (S/WN) 77. A probable T-64 was observed at Donguz Armor Penetration Range on (Figure 32). The tank was near the firing point for test station 1 and was probably involved in munitions tests. Track activity at the Armor Penetration Range on indicated that an uniden-	79. Developmental testing and state trials for the BMP M-1981 were observed at DWTC in 1977 and 1980, respectively. The vehicle was first observed in the Donguz WEPG Northeast on The vehicle was on pad C in area C, probably undergoing developmental testing and was on the pad through BMP M-1981 was not seen again until (Figure 33). During this approximate three-year period, the BMP M-1981 had probably been field tested but was not imaged. On area C and was probably involved in state trials. The vehicle was not observed again at Donguz. The BMP M-1981 features a large, twoman turret and a probable 30mm main gun. The earliest known deployments of the system were to Soviet forces in Afghanistan. Photographs of the BMP M-1981 appeared in a 23 April 1981 issue of the West German magazine Stern. However, it is not known if these were pictures of newly delivered BMP M-1981s or BMP M-1981s that arrived with the invading force in Afghanistan. Therefore,	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
tified tracked vehicle had occupied the firing points at stations 1 and 2 and the unidentified test area. The vehicle, possibly a tank, was stored in the vehicle storage building at the Armor Penetration Range. (S/WN) 78. A probable gun tube test was identified at Donguz Armor Penetration Range on A gun tube was mounted on a 203mm howitzer B-4 chassis. This chassis is commonly used to test various, large-caliber gun tubes. A witness panel had been set up approximately 25 to 30 meters forward of the B-4, and a panel had been set up at the end of the firing lane. Based on the number of punctured boards/armor plates on	the vehicles could have been in the units at the end of 1979 or could have deployed as late as April 1981. It is also possible that Afghanistan may have been used for the field testing phase with some units equipped with only a small number of M-1981s. (S/WN) 80. Two BMD M-1979s were observed in area C at Donguz WEPG Northeast on (Figure 34). Their appearance at Donguz was probably for display purposes only. The vehicles remained there through August. This observation followed by four months the first identification of these vehicles with Soviet forces in Afghanistan.	2 2 ²
the ground adjacent to the two panels, ten to 30 rounds were fired. This position is used to test direct-fire weapons which have an effective range in excess of 2,000 meters. These weapons would include tanks and antitank guns such as the T-12 and T-12A. The identification of T-64s near that position in 1981 and indications of possible tank tests the week after this observation would strongly suggest that a tank tube was being tested. (5/WN)	(S/WN) 81. The BTR-70 APC was observed together with a BMD and a BTR-60 at Donguz WEPG Northeast on Like the BMD M-1979, the BTR-70 was probably at Donguz for display purposes only. This relatively new followon to the BTR-60 has been in series production since at least 1977. (S/WN)	2
		2
<u>(, 11.7)</u>		

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82. The new APCs and AFVs observed at Donguz in 1980 and 1981 have all been deployed	chassis, and the end of the gun tube did not extend to the front of the chassis. The M-1981
in Afghanistan. The BMD M-1979 and the BMP M-	prototype was observed in its revetted test posi-
1981, first identified with Soviet forces in Afghanistan, arrived at Donguz together. The BTR-70 was	tion on Figure 35B), indicating the 25X1 beginning of developmental tests. The prototype
observed in Afghanistan on with	was in the vehicle storage park from 25X1
some of the first arriving motorized rifle units.	when it returned to area C for testing 25X1
Upon coming to Donguz, the BTR-70 was parked	until State trials of the M-1981 25X1 were observed underway in April 1977. No imag-
adjacent to a BMD and BTR-60 in area A, possibly	ery was acquired of Donguz between 25X1
as part of a display. (S/WN)	During that period, a 25X1
Self-Propelled Guns	new test position was constructed over the re-
83. Developmental testing and state trials for	vetted test position used to test the M-1981 proto-
the 152mm SP gun M-1981 were observed at	type. On the new test position was 25X1 partially dismantled, indicating the state trials had
DWTC from 1970 to 1977. The M-1981 prototype	probably ended. The test position consisted of a
was first identified in area C of Donguz WEPG Northeast on (Figure 35A). The	wooden shed open at the west end. The roof was
Northeast on (Figure 35A). The prototype consisted of a gun tube mounted on a	made of wood at the closed end with tarpaulin 25X1 extending from the wood section to the open end.
turretless 152mm SP howitzer M-1973 chassis. The	The tarpaulin precluded observation of the 152mm
breech area formed a delta shape at the rear of the	SP gun M-1981 while it was undergoing testing.

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84. The M-1981 was first seen in the open on Figure 36) in area A of Donguz WEPG Northeast. Several notable differences exist between the 152mm SP gun M-1981 and the prototype. These differences included a longer gun tube with a muzzle brake, the addition of a load assist mechanism on the right of the breech, a fire control/gunners compartment on the left of the breech, the expansion of the rear deck of the chassis, and the addition of a raised commander's compartment on the forward left side of the chassis. The M-1981 was next observed	occurred during this period but not at Donguz. On the SP mortar was observed in the vehicle storage park adjacent to a 152mm SP howitzer M-1973. Neither piece of equipment was in the vehicle storage park on The mortar was probably in area A or area C for state trials. However, these areas were not imaged during that time. According to collateral information, the 13th Heavy Artillery Brigade, Belorussian MD, spent 3 months of 1975 conducting firing exercises and participating in large-scale maneuvers at Donguz. The unit brought with it	25X1 ₁ 25X1 25X1
at the Donguz FA/MRL Test Firing Site 6 in September 1977. From the M-1981 was in area C at Donguz WEPG Northeast. The earliest known deployment of the 152mm SP gun M-1981 was identified on at Osipovichi Army Barracks South AL-2 (S/WN) 85. The 203mm SP gun M-1975 (Figure 37) was in area C (Donguz WEPG Northeast) on The gun had already been deployed to Soviet heavy artillery brigades at the time it was observed at Donguz where it was possibly undergoing munitions testing. The gun used the same test position that had been used to test fire the 152mm SP gun M-1981. (S/WN)	four newly acquired 240mm SP mortars. ² A unit, fitting the description of the 13th Artillery Brigade, was observed at the Donguz Weapons Test Support Area on Frigure 39). According to collateral, only two units had received the new system at that time—the 13th Heavy Artillery Brigade in Lapichi, which received its mortars in the spring of 1975, and the 12th Heavy Artillery Brigade (location unknown), which had received its mortars at an earlier date. ² (S/WN/NOFORN) Antiaircraft Artillery 87. A possible ZSU-23/4 follow-on vehicle, designated ZSU-1; and interim vehicle to the ZSU-X, designated ZSU-1; and a probable towed version of the gun system, designated ZU-X, have	25X1 25X1 25X1 25X1 25X1 25X1 25X1
86. Developmental testing, state trials, and troop training with the 240mm SP mortar M-1975 was observed at DWTC from 1971 through 1975. On the SP mortar was in the vehicle storage park at Donguz WEPG Northeast and was observed there through On the SP mortar was gone from the vehicle storage park; the SP mortar had probably been moved to area C for developmental testing. On the SP mortar was observed on a test firing pad in area C (Figure 38). The 152mm SP gun M-1981 prototype was being tested adjacent to it. The SP mortar was observed in area C through October. On the mortar was again in the vehicle storage park, indicating that the developmental tests had probably been completed. From December 1972 to the mortar was stored in the vehicle storage park. Field testing of the mortar probably	88. R&D related to upgrading the radars for the ZSU-X was observed in area A on A possible prototype of the ZSU-X was first identified in area A (Donguz WEPG Northeast) on A nuncovered ZSU-X was seen on Ment the vehicle was parked adjacent to the vehicle maintenance building in area A. The vehicle is mounted on a probable T-72 chassis with a large bulky turret. The actual gun and radar configuration was not identified at that time. The first observation of this vehicle test firing was on when it was identified on the artillery firing line in area C. By 1982, a new test firing position for the system had been constructed adjacent to pad C in area C. The ZSU-X was observed entering area C on The ZSU-X may prove to be the follow-on to the ZSU-23/4. (S/WN/NOFORN)	25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1

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89. A probable ZSU-I prototype vehicle was identified at Donguz in 1978. On an air defense battery was observed in area A (Donguz WEPG Northeast). The unit was equipped with four apparent ZSU-23/4s and four SA-9s. Two of the four ZSU-23/4s were possible ZSU-I and appeared to have larger gun tubes than the other two. This difference was confirmed when the systems were displayed (Figure 40). On the two possible ZSU-Is were in a visual security-fenced area while the other two ZSU-23/4s were in the open. The first confirmed ZSU-I was identified on on a hardstand in area A (Figure 41). The vehicle was adjacent to a FLAP WHEEL. Distinguishing features included larger gun tubes and an unidentified device on the left rear corner of the turret. The ZSU-I is probably meant to fill the gap until the ZSU-X goes into series production. The introduction of an interim vehicle is not uncommon. For instance, the SA-11 will ultimately replace the SA-6b. (S/WN) 90. According to collateral sources, a ZSU-23/4 follow-on system was already in series production in 1982.6 The ZSU-I is probably the system discussed in the collateral since it is known to have been in existence for at least five years and uses the same chassis as the ZSU-23/4. (S/WN/NO-FORN) 91. Six probable ZU-X towed AAA pieces (three shown on Figure 42A) were identified in area C on	the test position for the ZSU-X adjacent to naid C in area C. On one of these pie_55X1s placed on pad C (Figure 42B). The firing laine or that piece was parallel to the lane for the ZSU-X. The ZU-X is mounted on a small carriage, similar in size to the 37mm AA gun carriage. An unidentified structure is mounted on the right side of the shield, and the platform is offset toward the forward wheels. This AAA piece may be \$55X1d version of the ZSU-X. The practice of developing a towed and SP version of a system is common for artillery. For instance, the ZU-23 is the towed version of the ZSU-32/4, and the 57mm AA_min_S-60 is the towed version of the ZSU-32/4, and the 57mm AA_min_S-60 is the towed version of the ZSU-57/2. (\$25X1 Air Warning Systems 9. Developmental testing of the SQUAT EYE was the first AW radar identified at Donguz. It was in area A of the Donguz aha/SAM Mobile Test Area on the strength of the SQUAT EYE was the first AW radar identified at Donguz. It was in area A of the Donguz AAA/SAM Mobile Test Area on the suggests that Donguz, which tests AW systems, was the test facility for the SQUAT EYE. The SQUAT EYE has been involved in numerous tests at Donguz since then. (S/WN) 9.3. Developmental testing of the LONG TRACK had probably occurred at Donguz WEPG Northeast on 1 no N25X1er 1968, two LONG TRACKs and one THIN SKIN B were aligned on the east side of the 25X1cle

maintenance/storage building in area B (Figure 43). An identical type formation of vehicles was	been removed from area B. The first identification of an ODD PAIR deployment was at the Mur-		
observed in this area on imagery of poor interpre- tability taken between and	mansk Suspect SA-5 Site (in August 1972. Given the sequence of these events, it would		
suggesting that the LONG TRACK	appear that Sary-Shagan was a field test site for the		
had been tested at Donguz as early as 1965. On these vehicles were not in area B and	system, and Donguz was used to conduct state trials. Kapustin Yar Missile/Space Test Center SSM		
might have been moved to the Donguz Weapons Test Support Area for field testing. Several possible	may have also been involved in the state trials, since an ODD PAIR was identified		
electronics systems, including possible LONG	there in February 1971. (S/WN)		
TRACK, were observed at the Donguz Weapons Test Support Area on The LONG	95. The FLAT FACE B probably underwent developmental testing and state trials at Donguz.		
TRACK observed on may have been	The FLAT FACE B was first identified at Donguz on		
the first to return from the Weapons Test Support Area. The LONG TRACK probably underwent	(Figure 44) but had been there since at least The system was proba-		
developmental testing up to at least 1966 and was field tested through August 1968. The testing	bly undergoing developmental testing in area B, Donguz WEPG Northeast, adjacent to its predeces-		
observed after September 1968 was probably part	sor, the FLAT FACE A. The system was not ob-		
of the state trials. The LONG TRACK was deployed in 1968 to early warning (EW) and ground-control	served at Donguz again until May 1976. It was probably field tested during the period of its		
intercept (GCI) sites	absence from Donguz. On the system		
94. Photographic intelligence (photint) indi- cates that state trials on the ODD PAIR were	was observed in the vehicle storage park at Don- guz WEPG Northeast. Its return to Donguz was		
performed at Donguz during 1970. The ODD PAIR was first identified in September 1968 at Sary-	probably for state trials. Ona deployed FLAT FACE B was observed at Sasyktau		
Shagan Missile Test Center (MTC) Launch Com-	Missile Launch Facility and, by the		
plex A 7 It was not observed at Donguz until when it was in area B,	end of 1977, had been deployed to several missile sites and AW units in the USSR		
Donguz WEPG Northeast. The appearance of the ODD PAIR coincided with the appearance of	(S/WN)		
other AW radars including BAR LOCK, FLAT FACE	 Developmental testing and state trials on the ODD GROUP were performed at Donguz in 		
A, THIN SKIN B, SPOON REST A, SQUAT EYE, and SIDE NET. The ODD PAIR was last seen in area B	1973 and 1977, respectively. The ODD GROUP was first observed at Donguz on		
on By May 1971, the ODD PAIR and these other radar systems observed with it had	(Figure 45). The system was observed in area B,		

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Donguz WEPG Northeast, during probable devel-
Donguz WEPG Northeast, during probable devel-
opmental testing. The system was still there on but by had been returned to
but by had been returned to
the vehicle storage park. Field testing probably
occurred in 1975 and 1976, but there was no
occurred in 1975 and 1976, but there was no evidence of field testing at Donguz. However,
state testing of the system was observed on
The ODD GROUP was set up in area B,
Donguz WEPG Northeast. The state trials were
observed through
the ODD GROUP was no longer being
tested and was observed at a new position within
area B. It remained in this new position from
and was possibly on
display. Such a display at Donguz usually indicates
that the system has been certified and will soon be
deployed. The first observation of ODD GROUP
radar was at Ribnitz/Damgarten GCI Radar Facil-
ity in August 1979. The ODD
GROUP was also observed at Kapustin Yar Elec-
tronics Related Facility on
and Sary-Shagan MTC Launch
Complex A on (S/WN)
97. Developmental testing of the SPOON
REST D was probably performed at Sary-Shagan
MTC, Launch Complex A, where it was first seen
between Probable field
testing of the SPOON REST D was observed at
Donguz Weapons Test Support Area on
(Figure 46). Two other facilities may have
been used to troop test the SPOON REST D; these
tests were conducted at Pechenga SAM Site D07-2
where it was first seen on
and Liepaja SAM Site A01-2
where it was first seen on
a SPOON REST D set was in
the vehicle storage park at Donguz WEPG North-
east. At this point, field tests were probably com-
pleted, and state trials were underway. On
a SPOON REST D was in the
vehicle storage park along with the operations
vehicle and one van from a second set. The
antenna vehicle and a second trailer for the
second set were in area B. This coverage probably
took place after state trials had been completed.
By the end of 1973, the SPOON REST D had been
observed at several airfields in the USSR and
Poland and with Soviet EW battalions. (S/WN)
98. State trials of the DOG TAIL AW radar
were observed at Donguz WEPG Northeast from
August 1978 to September 1979. The DOG TAIL
(Figure 47) was first observed on in
the vehicle storage park, along with a SPOON
REST D set. On the DOG TAIL and
SPOON REST D were in area B, and by
the systems were in operation. As
many as four DOG TAILs were probably being
tested for compatibility with THIN SKIN, BAR
LOCK, ODD PAIR, FLAT FACE, and SQUAT EYE.
State trials were probably completed before
At that time, three of the four DOG
TAILs were in the travel mode, and the fourth was

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still operational. The DOG TAILs were first observed at Soviet GCI and AW sites in February 1979, indicating acceptance had occurred, and series production had begun by at least the latter part of 1978. (S/WN) - 32 -SECRET

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ECM/ESM Systems	The state trials for the VIEW POINT were observed
99. The VIEW POINT intercept/jamming ra-	in area A, Donguz WEPG Northeast from
dar was observed during developmental testing	(Figure 49). During that time,
and state trials at Donguz. The system was ob-	two VIEW POINTs were in the operational mode.
served in area A, Donguz WEPG Northeast, on	The systems were gone by The first
(Figure 48). At that time, the	
system was in travel mode in area A. Developmen-	
tal test-related activity was seen on	
when the radar was in	
the operational mode. The VIEW POINT was gone	
from Donguz by probably for field testing.	

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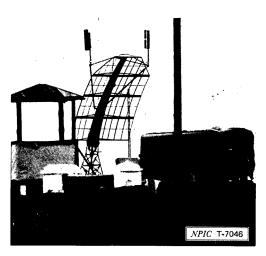


FIGURE 50. MODIFIED BAR BRICK

100. (S/WN) A modified BAR BRICK interceptor radar was in development at Donguz WEPG Northeast possibly as early as 1972. The modification consists of two unidentified detectors/antennas mounted on two vertical arms attached to the rear of the vertical sail (Figure 50). A possible modified BAR BRICK was in area A with a SWING BOX interceptor radar on The modified BAR BRICK was gone on but was present on all coverage until Having probably completed developmental testing and possibly state trials, the modified BAR BRICK was first identified deployed at

November 1977.8 The modified BAR BRICK was not observed again at Donguz WEPG Northeast	
when it was placed in a new secure test area in area A, where it was in the	25X1
operational mode until (S/WN)	25 X 1
101. The PAINT BOX ECM radar was first identified during probable field testing at Donguz	
Weapons Test Support Area on (Figure 51)	25 X 1
and Subsequently, the PAINT	25 X 1
BOX was observed in area B, Donguz WEPG	
Northeast, onprobably preparing to	25 X 1
begin state trials. PAINT BOX systems were ob-	
served in the operational mode in area B from	25X1
One One	25 X 1
PAINT BOX was at the Donguz Controlled Frag-	0.534
mentation Test Area. On the PAINT BOX	25X1
was again in area B of Donguz WEPG Northeast and was seen in operation on The first	0574
	25X1
identification of a deployed PAINT BOX was on at Vladivostok ECM Facility South-	25X1
east (S/WN)	25 X 1 25 X 1
(** *** ***	23/1
102. Developmental testing and state trials of	İ
the DOG CART jamming radar were performed at	
Donguz from 1976 to 1978. The DOG CART was	
first observed in area A, Donguz WEPG Northeast	
on(Figure 52). The system was in the	25 X 1
travel mode and was being towed by a box-bodied	
van (BBV) truck. The DOG CART was probably in	25X1
developmental testing from May 1976 to April	25X1
1977. On the DOG CART was on the	25X1
apron at the south end of the storage building and	20/(1
was adjacent to a KING PIN which is very similar in	1
appearance. The DOG CART was connected by	25X1
cable to a URAL-375 BBV, possibly a generator	25 X 1
truck, parked along the east side of the building.	
	25X1



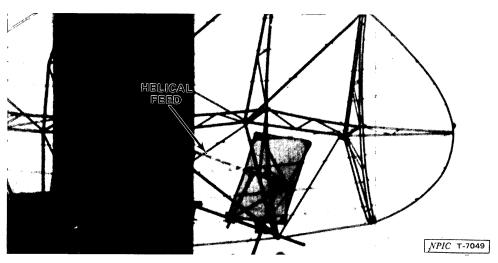


FIGURE 53. MODIFIED SQUAT EYE



FIGURE 54. MODIFIED STOVE PIPE

sists of a new helical feed compared to the	
rectangular feed of the AW version. 12 The possible	
modified SQUAT EYE was on a short mast in the	
southwest corner of area B. On a	25X1
modified SQUAT EYE was observed	25 X 1
	25X1
	25 X 1
and	225 X 1
Following	25X1(1
these initial deployments in the	25X1
system was widely deployed inand	25X1
the USSR. These observations in	25 X 1
indicated that the presence of this system at	
Donguz in 1978 was possibly for state trials. (S/WN)	
,	
104. The SKY BOARD ECM radar system was	
first identified in area A, Donguz WEPG Northeast,	
onThe system was seen operating	25 X 1
at that time and remained operational at least until	
August 1977. The system was in a travel mode	
through 1978 and was not seen at Donguz in 1979.	25X1
However, during that time the system was identi-	25X1
fied at	25X1
in 1978; at Kuyvozi Possible Signal Intel-	25X1
ligence Site USSR, in 1979; and at	25 X 1
Shchelkovo Army Barracks Kaliningrad AL-1 (BE USSR, in 1980. Activity relating to	25 X 1
testing of the system was again observed in area A	23/1
on when three SKY BOARD	25X1
systems came into the area. On the	25X1
three systems were put on display in area A. Based	25X1
on the sequence of events, the 1977 identification	25X1
of the system at Donguz was probably the devel-	20/1
opmental testing phase, the three subsequent	25X1
observations were probably for field testing, the	20/(1
return to Donguz was for state trials, and the	
subsequent display was for customer representa-	25 X 1
tives. (S/WN)	
105. The modified STOVE PIPE probable tac-	25 X 1
tical air navigation (TACN) jammer was first identi-	
fied in area B, Donguz WEPG Northeast, on	25X1
(Figure 54). Analysis of prior imagery	25 X 1
revealed that the jammer was probably there on	25X1
The system was previously	25X1
The system was previously	20/

modified SQUAT EYE (Figure 53) is believed to be a passive intercept system. The modification con-

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now mounted of antenna on the on the rear of it was erected of it was erected of in other areas presence of this opmental testing.	on the newer ZIL- e modified STOVE the van body. On on the front of the Additional sight are needed to is system at Dong og or state trials. (S	ings at Donguz or determine if the guz was for devel-	three vehicles age park, and On The three sets repositioned. (in area B, one in the Donguz cility. In Octob B. No evidence 1982; this systemental stage. A may have gon	e four-vehicle sets. On of the set were in the vehicle the remaining nine were in the system was set up in an that make up the system were on one set was in area A, and the third ser, all three sets were set up e of system testing was obserm is probably still in the deat the time of this report, the e to other facilities for field rn to Donguz by 1985. (S/WN	area B. fea B.14 25X1 fee later 25X1 set was 25X1 fest Fa- in area rved in evelop- system testing 25X1		
_		DESTA		THE DOINGLE BY 1903. (37 VVIV	,		
IMAGERY		KEFEK	ENCES				
All applicab	ole satellite imager			was used	in the 25X1		
	on of this report. (S	5/WN)					
Small-Format Im Figure	Agency	Accession No	Date	Classification			
47A	DIA	2215 4630 81	1981	CONFIDENTIAL			
50	DIA	1 215 0180 77	1977	CONFIDENTIAL	25X1		
53	DIA	1 215 1512 80	1980	CONFIDENTIAL			
54	DIA	2217 7096 81	1981	CONFIDENTIAL			
4. C8041C,	. Stern, p 242, 23 Ap	or 81, West Germany (U	NCLASSIFIED)	ls in Orenburg, 30 Mar 62 (SECRE	25X1		
5. NPIC. Z FORN)	-14647/82, IAR-0090	6/82, Research and De	velopment of The	Soviet ZSU-X (S), Dec 82 (SECRE	:T/NO-		
			•	1ay 82 (SECRET/WNINTEL/NOFC			
7. CIA/IAS Center,		nalysis of Large Height SECRET CODEWORD*)		Kapustin Yar, Sary Shagan Missi	ile Test 25X1 25X1		
9. NPIC.	PIR-05	51/79, New Electronics	Systems, Donguz A	rtillery Test Area, USSR (S), Jun 7	_0,1.		
10. NPIC. Z	25X 10. NPIC. Z-20063/81, IAR-0061/81, Modified BIG CAP identified at Donguz, USSR (S), May 81 25X1						
11. DoD. 2	25X						
		ied SQUAT EYE (U), 15			25 X 1		
		r of Battle, U/I ZIL-1			25 X 1		
] 7/81, New Probable Di	rection-Finding Sys	tem Observed at Donguz Artille	∠U∧ i ery Test		
	SSR (S), Jan 82	1			25X1		
**Extract	ted information is c ted information is c ted information is c		TEL.		25X1		
REQUIREMENT							
COMIREX L Project 5430							
		ng this report are weld ry Exploitation Group,		directed to	25X1 25X1		

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